

GenCore version 5.1.6
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OM protein - protein search, using sw model

Run on: February 16, 2005, 16:27:09 ; Search time 46.7752 Seconds
(without alignments)
1479.409 Million cell updates/sec

Title: US-10-003-356-8
Perfect score: 4904
Sequence: 1 MFERRKEQDEGPGIHEFLAF.....TVSTVLDDRVLIYMCPLKLQ 927

Scoring table: BLOSUM62
Gapop 10.0 , Gapext 0.5

Searched: 513545 seqs, 74649064 residues

Total number of hits satisfying chosen parameters: 513545

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database : Issued Patents AA:*
1: /cgn2_6/ptodata/1/iaa/5A_COMB.pep:*
2: /cgn2_6/ptodata/1/iaa/5B_COMB.pep:*
3: /cgn2_6/ptodata/1/iaa/6A_COMB.pep:*
4: /cgn2_6/ptodata/1/iaa/6B_COMB.pep:*
5: /cgn2_6/ptodata/1/iaa/PTUS_COMB.pep:*
6: /cgn2_6/ptodata/1/iaa/backfiles1.pep:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	1700	34.7	1059	3	US-09-134-513-2
2	1695.5	34.6	1085	1	US-08-485-588-5
3	1695.5	34.6	1085	1	US-08-484-565-5
4	1695.5	34.6	1085	2	US-08-480-751-5
5	1695.5	34.6	1085	2	US-08-943-986-5
6	1695.5	34.6	1085	3	US-08-353-784-5
7	1695.5	34.6	1085	3	US-08-484-719B-5
8	1695.5	34.6	1085	3	US-08-484-159-5
9	1690.5	34.5	1079	1	US-08-485-588-8
10	1690.5	34.5	1079	1	US-08-484-565-8
11	1690.5	34.5	1079	2	US-08-480-751-8
12	1690.5	34.5	1079	2	US-08-943-986-8
13	1690.5	34.5	1079	3	US-08-353-784-8
14	1690.5	34.5	1079	3	US-08-484-719B-8
15	1690.5	34.5	1079	3	US-08-484-159-8
16	1688.5	34.4	1027	3	US-09-162-021B-2
17	1688.5	34.4	1027	4	US-10-268-051-8
18	1687.5	34.4	1078	1	US-08-485-588-7
19	1687.5	34.4	1078	1	US-08-484-565-7
20	1687.5	34.4	1078	2	US-08-480-751-7
21	1687.5	34.4	1078	2	US-08-943-986-7
22	1687.5	34.4	1078	3	US-08-353-784-7
23	1687.5	34.4	1078	3	US-08-484-719B-7
24	1687.5	34.4	1078	3	US-08-484-159-7
25	1673.5	34.1	1088	1	US-08-485-588-6
26	1673.5	34.1	1088	1	US-08-484-565-6
27	1673.5	34.1	1088	2	US-08-480-751-6

28	1673.5	34.1	1088	2	US-08-943-986-6	Sequence 6, Appli
29	1673.5	34.1	1088	3	US-08-353-784-6	Sequence 6, Appli
30	1673.5	34.1	1088	3	US-08-484-719B-6	Sequence 6, Appli
31	1673.5	34.1	1088	3	US-08-484-159-6	Sequence 6, Appli
32	1520.5	31.0	851	4	US-09-619-353-12	Sequence 12, Appli
33	1485	30.3	856	4	US-09-619-353-8	Sequence 8, Appli
34	1460.5	29.8	975	4	US-09-695-481-4	Sequence 4, Appli
35	1451.5	29.6	1219	2	US-08-687-289A-6	Sequence 6, Appli
36	1451.5	29.6	1219	4	US-09-435-897-6	Sequence 6, Appli
37	1446	29.5	854	4	US-09-619-353-10	Sequence 10, Appli
38	1422	29.0	835	4	US-09-619-353-7	Sequence 7, Appli
39	1002	20.4	1058	2	US-08-687-289A-5	Sequence 5, Appli
40	1002	20.4	1058	4	US-09-435-897-5	Sequence 5, Appli
41	990	20.2	877	4	US-09-619-353-2	Sequence 2, Appli
42	952	19.4	863	4	US-09-619-353-14	Sequence 14, Appli
43	818.5	16.7	879	1	US-08-072-574-6	Sequence 6, Appli
44	818.5	16.7	879	1	US-08-486-270-6	Sequence 6, Appli
45	818.5	16.7	879	3	US-08-367-264-6	Sequence 6, Appli

ALIGNMENTS

RESULT 1
US-09-134-513-2
; Sequence 2, Application US/09134513
; Patent No. 6210964
; GENERAL INFORMATION:
; APPLICANT: Brown, Edward M.
; APPLICANT: Diaz, Ruben
; APPLICANT: Bai, Mei
; APPLICANT: Quinn, Stephen J.
; TITLE OF INVENTION: The Avian Extracellular Calcium-Sensing
; TITLE OF INVENTION: Receptor
; NUMBER OF SEQUENCES: 2
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Vinson & Elkins L.L.P.
; STREET: 1455 Pennsylvania Avenue, N.W.
; CITY: Washington
; STATE: D.C.
; COUNTRY: U.S.
; ZIP: 20004-1008
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/134,513
; FILING DATE:
; CLASSIFICATION:
; ATTORNEY/AGENT INFORMATION:
; NAME: Sanzo, Michael A.
; REGISTRATION NUMBER: 36,912
; REFERENCE/DOCKET NUMBER: BRI331/13003
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (202)639-6585
; TELEFAX: (202)639-6604
; INFORMATION FOR SEQ ID NO: 2:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 1059 amino acids
; TYPE: amino acid
; STRANDEDNESS: not relevant
; TOPOLOGY: not relevant
; MOLECULE TYPE: protein
; HYPOTHETICAL: NO
US-09-134-513-2

Query Match 34.7%; Score 1700; DB 3; Length 1059;
Best Local Similarity 37.6%; Pred.No. 9.4e-150;
Matches 349; Conservative 182; Mismatches 333; Indels 64; Gaps 16;
Qy 18 LAFLW--ABLGSAAKEEKEERTCRLGKCVDAENHSLVIGLFPIDSRTPANESI-LE 74

Db 11 LLFTWNTAAYPGNQRAQKKG-----IILGGLFPIHFGVAAKDQDLKSR 54
Qy 75 PASAKCEGFNFQFRFMKAMHMIKEINKRKDILPNITLGYQIFDTCFTTISKSVAVLVP 134
Db 55 PESVECI RYNFGRFWLQAMIFAIEEINNPNLLPNMTLGYRIFDTCNTVSKALEATLSP 114
Qy 135 LTQGE---ENRPNFRNSTGAPPA--GIVGAGGSFLSVPASRILGLYLPQVGYTSTCVIL 189
Db 115 VAQNKIDSLNLD EFCNCSEHIPSTIAVVGATSGVSTAVANLLGLFYIPQVSVASSRLL 174
Qy 190 SDKYQFPYSYLRVIAADKIQSKAVVKRIQHFGWVWVGAIADDDYGYGVKTFKEKMEGAN 249
Db 175 SNKNQFKSFLRTIPNDEHQATAMADIIEYFRWNWVGTTIAADDDYGRPGIEKFREAEERD 234
Qy 250 LCVAFSETIPKVYSNEKMQKAVKAVKTSTAKVIVLYTSDIDLSLVLEMIHNNITDRTWI 309
Db 235 ICIDFSELISQSDSEIEIQVVEVIQNSTARVIVVFSSGPDLEPLIKEIVRRNITKILW 294
Qy 310 ATEAWITSALIAKPEYFPYFGGTIGFATPERSVIPGLKEFLYDVHPNKPNDVLTIEFWQT 369
Db 295 ASEAWASSSLIAMBEFFRVIGSTIGFALKAGQIPGFRFLQKVHPKKSANNGFAKEFWEE 354
Qy 370 AFNCTWPN-----SSVPYNVDHRVNM-TGKEDRLYDMSDQCTGEEKLEDLKNYLDTS 422
Db 355 TFNCYLPSESKNPASASFHKAHEEGLGAGNGTAARPP---CTGDENITSVETPYMDFT 411
Qy 423 QLRITKQCKQAVVAIAHGLDHLRSRCEQGGQFGSGNQCCAYIPTDFWQLWYMKIEKPKS 482
Db 412 HLRISYNYLAVYSIAHALQDIYTCTPGKGLF-TNGSCADIKKVEAWQVLKHLRLNFTS 470
Qy 483 HEDKWILDNDGLKNHYDVLNWHLD-DEGEISFVTVGRFNPRSTNFELVPTNSTIPW 541
Db 471 NMGEQVDFDEFGDLV-GNYSIINWHLSPEDGSVVFEEVGHVYVYAKKGERLFINENKILW 529
Qy 542 NTESSRLPHSVCTDVCPPGTGRGFGVQREPICCFDSIPCADGHVSRKPGERECEQCQEDYV 601
Db 530 SGFSKEVPFNSCSDCLPGTRKGIIEGEPCCFECDPCPDGEYDDETDASACDKCPEDYV 589
Qy 602 SNAQKSECVLKEVEYLAYDEALGFTLVLSVFGAFVVLAVTAVVYIHRHTPLVNASDWOL 661
Db 590 SNENHTSCIPKQIEFLSWTEPPFGIALTLFAVLGIFLTSFVLGVTKFRNTPIVKATNREL 649
Qy 662 GFLIQVSLIIMLLSSMLFIDKPHNWSMACQVTLALGFSCLSLGKTSSFLAYRISK 721
Db 650 SYLLLFSLCCFSSSLFFIGEPQNWTCRLRQPAFGISFVLCISCLVKTNRVLLVFE-AK 708
Qy 722 SKTQLTSMHPLYRK-----IIVLISVLAIEIGICTAYLILEPMPVYKNMESQNTKIL 773
Db 709 IPTS-----LHRKWGMLNQLFLVFLCTFVQIVICVILWYTAAPPSSYRNHELEDEIFI 762
Qy 774 GCNEISIEFLYSMFGIDAFALLCFLTTFVARQLPDNYYEGKCTIFGMLVFFIIMMSFVP 833
Db 763 TCHESLMALGFLIGYTCLLAICFFFAFKSRKLPENFNEAKFTFSMLIFFIVWISFIP 822
Qy 834 VYLSTKGKFKMAVEIFAILASSHGLLGCIFAPKCLIIILLRPERNTSEIVCGRVSTTDNCI 893
Db 823 AYASTYKGFVSAVEVIAILAAAFGLLACIFPNKVYIILFKPSRNTIEEV--RCSTAAHAF 880
Qy 894 QLTSAFV-----SSELNNTTVST 911
Db 881 KVAARATLRRSNVSRKRSNSLGGSTGST 908

RESULT 2

US-08-485-588-5
; Sequence 5, Application US/08485588
; Patent No. 568938
; GENERAL INFORMATION:
; APPLICANT: Edward M. Brown
; APPLICANT: Steven C. Hebert
; APPLICANT: Forrest H. Fuller
; APPLICANT: James E. Garrett, Jr.

; TITLE OF INVENTION: CALCIUM RECEPTOR-ACTIVE
; TITLE OF INVENTION: MOLECULES
; NUMBER OF SEQUENCES: 20
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Lyon & Lyon
; STREET: First Interstate World Center
; STREET: Suite 4700
; STREET: 633 West Fifth Street
; CITY: Los Angeles
; STATE: California
; COUNTRY: USA
; ZIP: 90071
; COMPUTER READABLE FORM:
; MEDIUM TYPE: 3.5" Diskette, 1.44 Mb storage
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: FASTSEQ
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/485,588
; FILING DATE: 7 June, 1995
; CLASSIFICATION: 435
; PRIOR APPLICATION DATA: including application
; PRIOR APPLICATION DATA: described below: 9
; APPLICATION NUMBER: 08/353,784
; FILING DATE: 9 December, 1994
; APPLICATION NUMBER: PCT/US/94/12117
; FILING DATE: 21 October, 1994
; APPLICATION NUMBER: U.S. 08/292,827
; FILING DATE: 23 August, 1994
; APPLICATION NUMBER: U.S. 08/141,248
; FILING DATE: 22 October, 1993
; APPLICATION NUMBER: U.S. 08/009,389
; FILING DATE: 23 February, 1993
; APPLICATION NUMBER: U.S. 08/017,127
; FILING DATE: 12 February, 1993
; APPLICATION NUMBER: U.S. 07/934,161
; FILING DATE: 21 August, 1992
; APPLICATION NUMBER: U.S. 07/834,044
; FILING DATE: 11 February, 1992
; APPLICATION NUMBER: U.S. 07/749,451
; FILING DATE: 23 August, 1991
; ATTORNEY/AGENT INFORMATION:
; NAME: Heber, Sheldon O.
; REGISTRATION NUMBER: 38,179
; REFERENCE/DOCKET NUMBER: 213/005
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (213) 489-1600
; TELEFAX: (213) 955-0440
; TELEX: 67-3510
; INFORMATION FOR SEQ ID NO: 5:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 1085 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: protein
; US-08-485-588-5

Query Match 34.6%; Score 1695.5; DB 1; Length 1085;
Best Local Similarity 39.3%; Pred. No. 2.6e-149;
Matches 350; Conservative 173; Mismatches 323; Indels 45; Gaps 15;

Qy 53 LVIGGLFPIDSRTPANESI-LEPASAKCEGFNFQFRFMKAMHMIKEINKRKDILPNI 111
Db 33 IILGGLFPIHFGVAVKDQDLKSRPESVECI RYNFGRFWLQAMIFAIEEINNPNMT 92
Qy 112 TLGYQIFDTCFTTISKSVAVLVLVTGQE---ENRPNFRNSTGAPPA--GIVGAGGSFLSV 166
Db 93 TLGYRIFDTCNTVSKALEATLSFVAQNKIDSLNLD EFCNCSEHIPSTIAVVGATSGIST 152
Qy 167 PASRILGLYLPQVGYTSTCVILSDKYQFPYSYLRVIAADKIQSKAVVKRIQHFGWVWVG 226
Db 153 AVANLLGLFYIPQVSVASSRLLSNKNQFKSFLRTIPNDEHQATAMADIIEYFRWNWVGT 212

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QY 227 IAADDDYGYGVKTFKEKMEANLVCVAFSETIPKVYSNEKMQKAVKAVKTSTAKVIVLYT 286
| | | | | : : : : : : : : : : : : : : : : : : : : : : : : : : : :
Db 213 IAADDDYGRPGIEKFEAEERDIDCFSELISQYSDDEKIQVVEVIQNSTAKVIVVFS 272
| | | | | : : : : : : : : : : : : : : : : : : : : : : : : : : : :
QY 287 SDIDLSLFVLEMIHNITDRTWIATEAWITSALIAKPEYFPYFGGTIGFATPRSVIPGLK 346
| | | | | : : : : : : : : : : : : : : : : : : : : : : : : : : : :
Db 273 SGPDLEPLIKBIVRNITGRWLASEAWASSSLIAMPEYFHVVGTTGFLKAGQIPGFR 332
| | | | | : : : : : : : : : : : : : : : : : : : : : : : : : : : :
QY 347 EFLYDVHPNKPNDVLTIEFWQTAFC--TWPNSSVPYNVDHRVNMGTGKEDRLYDMSDQ-- 403
| | | | | : : : : : : : : : : : : : : : : : : : : : : : : : : : :
Db 333 EFLQKVHPKSVHNGFAKEFWEETFNCHLQEGAKGPLVD--TFLRGHEEGGARLSNSPT 390
| | | | | : : : : : : : : : : : : : : : : : : : : : : : : : : : :
QY 404 ----LCTGEEKLEDLKNITYLDTSQLRITKQCKQAVYIAHGLDHLSRCQEGQPGFSGNQ 459
| | | | | : : : : : : : : : : : : : : : : : : : : : : : : : : : :
Db 391 AFRPLCTGEENISSVETPYMDYTHLRISYNNVILAVYSIAHALQDIYTCIPGRGLF-TNGS 449
| | | | | : : : : : : : : : : : : : : : : : : : : : : : : : : : :
QY 460 CAYIPTDFWQLMYMKIKFKKSHEDKWVLDNDGDLKNGHYDVLNWHLD-DEGEISFVT 518
| | | | | : : : : : : : : : : : : : : : : : : : : : : : : : : : :
Db 450 CADIKKVEAWQVLKHLRHLNFTSNMGEQVTFDECGDLA-GNYSIINWHLSPEDGSIVFKE 508
| | | | | : : : : : : : : : : : : : : : : : : : : : : : : : : : :
QY 519 VGRFNFRSTNFIPTNSTIFWNTESSRLPHSVCTDVCPPGTGRGFVQREPICCFDSIP 578
| | | | | : : : : : : : : : : : : : : : : : : : : : : : : : : : :
Db 509 VGYNNVYAKGERLFINDEKILWSGFSREVPFNSCRDCLAGTRKGIEGEPTCCFECVE 568
| | | | | : : : : : : : : : : : : : : : : : : : : : : : : : : : :
QY 579 CADGHVSRKPGERECEQGEDYWSNAQKSECVLKEVEYLAYDEALGFTLVILSVFEGAFVV 638
| | | | | : : : : : : : : : : : : : : : : : : : : : : : : : : : :
Db 569 CPDGEYSDETDASACDKCPDDFWSNENHTSCIAKIEFLSWTEPFGLTFLAVLGIFLT 628
| | | | | : : : : : : : : : : : : : : : : : : : : : : : : : : : :
QY 639 LAVTAVYVHRHTPLVNASDWQLGFLIQVSLIIMLLSSMLFIDKPHNWSMAGQVTLALG 698
| | | | | : : : : : : : : : : : : : : : : : : : : : : : : : : : :
Db 629 AFVLGVFIKFRNTPIVKATNRELSYLLFSLCCFSSSLFFIGEPODWTCLRLQPAFGIS 688
| | | | | : : : : : : : : : : : : : : : : : : : : : : : : : : : :
QY 699 FSLCLSLGKTSSLFLAYRISKSTQLTSMHPLYRK-----IIVLISVLAIEIGICT 750
| | | | | : : : : : : : : : : : : : : : : : : : : : : : : : : : :
Db 689 FVLCISCLVKNTRVLLVF---EAKIP-TSFH---RKWGLNLQFLLVFLCTFMQIVICA 741
| | | | | : : : : : : : : : : : : : : : : : : : : : : : : : : : :
QY 751 AYLILEPPMVYKNMESQNTKIILGCNEISIEFLYSMFGIDAFALALCLFLTTFVARQLPDN 810
| | | | | : : : : : : : : : : : : : : : : : : : : : : : : : : : :
Db 742 IWLNTAPPSSYRNHELEDEIIFITCHEGSLMALGFLIGYTCLLAAICFFFAFKSRKLPEN 801
| | | | | : : : : : : : : : : : : : : : : : : : : : : : : : : : :
QY 811 YYEGKCITFGMLVFFIWMSPVYVLTSTGKFKMAVEIFAILASSHGLGCI FAPKCLII 870
| | | | | : : : : : : : : : : : : : : : : : : : : : : : : : : : :
Db 802 FNEAKFITPSMLFFIVWISFIPAYASTYGFVS AVEVIAILAA SFGLACIFFNKVYII 861
| | | | | : : : : : : : : : : : : : : : : : : : : : : : : : : : :
QY 871 LLRPERNTSEIVCGRVSTTDNCIQLTSAFV-----SSELNNTTVST 911
| | | | | : : : : : : : : : : : : : : : : : : : : : : : : : : : :
Db 862 LFKPSRNTIEEV--RCSTAAHAFKVAARATLRRNSVRQSRSSSLGGSTGST 910
| | | | | : : : : : : : : : : : : : : : : : : : : : : : : : : : :
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RESULT 3

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US-08-484-565-5
; Sequence 5, Application US/08484565
; Patent No. 5763569
; GENERAL INFORMATION:
; APPLICANT: Edward M. Brown
; APPLICANT: Steven C. Hebert
; APPLICANT: James B. Garrett, Jr.
; TITLE OF INVENTION: CALCIUM RECEPTOR-ACTIVE
; TITLE OF INVENTION: MOLECULES
; NUMBER OF SEQUENCES: 20
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Lyon & Lyon
; STREET: First Interstate World Center
; STREET: Suite 4700
; STREET: 633 West Fifth Street
; CITY: Los Angeles
; STATE: California
; COUNTRY: USA
; ZIP: 90071
; COMPUTER READABLE FORM:
; MEDIUM TYPE: 3.5" Diskette, 1.44 Mb storage
; COMPUTER: IBM PC compatible
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; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: FASTSEQ
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/484,565
; FILING DATE: 7 June, 1995
; CLASSIFICATION: 435
; PRIOR APPLICATION DATA: including application
; PRIOR APPLICATION DATA: described below: 9
; APPLICATION NUMBER: 08/353,784
; FILING DATE: 9 December, 1994
; APPLICATION NUMBER: PCT/US/94/12117
; FILING DATE: 21 October, 1994
; APPLICATION NUMBER: U.S. 08/292,827
; FILING DATE: 23 August, 1994
; APPLICATION NUMBER: U.S. 08/141,248
; FILING DATE: 22 October, 1993
; APPLICATION NUMBER: U.S. 08/009,389
; FILING DATE: 23 February, 1993
; APPLICATION NUMBER: U.S. 08/017,127
; FILING DATE: 12 February, 1993
; APPLICATION NUMBER: U.S. 07/934,161
; FILING DATE: 21 August, 1992
; APPLICATION NUMBER: U.S. 07/834,044
; FILING DATE: 11 February, 1992
; APPLICATION NUMBER: U.S. 07/749,451
; FILING DATE: 23 August, 1991
; ATTORNEY/AGENT INFORMATION:
; NAME: Heber, Sheldon O.
; REGISTRATION NUMBER: 38,179
; REFERENCE/DOCKET NUMBER: 213/006
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (213) 489-1600
; TELEFAX: (213) 955-0440
; TELEX: 67-3510
; INFORMATION FOR SEQ ID NO: 5:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 1085 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: protein
; US-08-484-565-5
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Query Match 34.6%; Score 1695.5; DB 1; Length 1085;
Best Local Similarity 39.3%; Pred. No. 2.6e-149;
Matches 350; Conservative 173; Mismatches 323; Indels 45; Gaps 15;

QY 53 LVIGGLFPIDSR TIPANESI-LEPASAKCEGFNFQFRWKMAMHMIKEINKRKDILPNI 111
| | | | | : : : : : : : : : : : : : : : : : : : : : : : : : : : :
Db 33 IILGGLFPIHFGVAVKQDLKSRPESVCEIRYNGFRWLQAMIFAIEEINSSPALLPNM 92
| | | | | : : : : : : : : : : : : : : : : : : : : : : : : : : : :
QY 112 TLGYQIFDTCFTISKSV EAVLVLTGQE---ENRPNFRNSTGAPPA--GIVGAGGSFLSV 166
| | | | | : : : : : : : : : : : : : : : : : : : : : : : : : : : :
Db 93 TLGYRIFDTCNTVSKALEATLSFVAQNKIDSLNLD EFCNCSEHIPSTIAVVGATGSGIST 152
| | | | | : : : : : : : : : : : : : : : : : : : : : : : : : : : :
QY 167 PASRIILGLVYLPQVGYTSTCVILSDKVQFPSPYLRVIA SDKIQSKAVVVKRIQHFGWVWVGA 226
| | | | | : : : : : : : : : : : : : : : : : : : : : : : : : : : :
Db 153 AVANLGLFYIPQVSYASSRLLSNKNQFKSFLRTIPNDEHQATAMADIIEYFRWNWVGT 212
| | | | | : : : : : : : : : : : : : : : : : : : : : : : : : : : :
QY 227 IAADDDYGYGVKTFKEKMEANLVCVAFSETIPKVYSNEKMQKAVKAVKTSTAKVIVLYT 286
| | | | | : : : : : : : : : : : : : : : : : : : : : : : : : : : :
Db 213 IAADDDYGRPGIEKFEAEERDIDCFSELISQYSDDEKIQVVEVIQNSTAKVIVVFS 272
| | | | | : : : : : : : : : : : : : : : : : : : : : : : : : : : :
QY 287 SDIDLSLFVLEMIHNITDRTWIATEAWITSALIAKPEYFPYFGGTIGFATPRSVIPGLK 346
| | | | | : : : : : : : : : : : : : : : : : : : : : : : : : : : :
Db 273 SGPDLEPLIKBIVRNITGRWLASEAWASSSLIAMPEYFHVVGTTGFLKAGQIPGFR 332
| | | | | : : : : : : : : : : : : : : : : : : : : : : : : : : : :
QY 347 EFLYDVHPNKPNDVLTIEFWQTAFC--TWPNSSVPYNVDHRVNMGTGKEDRLYDMSDQ-- 403
| | | | | : : : : : : : : : : : : : : : : : : : : : : : : : : : :
Db 333 EFLQKVHPKSVHNGFAKEFWEETFNCHLQEGAKGPLVD--TFLRGHEEGGARLSNSPT 390
| | | | | : : : : : : : : : : : : : : : : : : : : : : : : : : : :
QY 404 ----LCTGEEKLEDLKNITYLDTSQLRITKQCKQAVYIAHGLDHLSRCQEGQPGFSGNQ 459
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Db 391 AFRPLCTGEENISSVETPYMDYTHLRISYNNVYLAIVSYAHALQDIYTCIPGRGLF-TNGS 449
Qy 460 CAVIPTDFWQLMYMKEIKFKSHEDKWILDNDGLKNGHYDVLNWHL-D-DEGEISFVT 518
Db 450 CADIKKVEAWQVLKHLRLNFTSNMGEQVTFDECGDLA-GNYSIINWHLSPEDGSIVFKE 508
Qy 519 VGRFNFRSTNFELVPIPTNSTIFWNTTESSRLPHSVCTDVCPPGTGRGVQREPICCFDSIP 578
Db 509 VGYNVYAKKGERLFINDEKILWSGFSREVFPNSCRDCLAGTRKGIIEGEPTCCFECVE 568
Qy 579 CADGHVSRKPGERECEQCEDYWSNAQKSECVLKEVEYLAYDEALGFTLVILSVFGAFVV 638
Db 569 CPDGEYSDETDASACDKCPDDFWSNENHTSCIAKEIEFLSWTEPFGLTFAVLGIFLT 628
Qy 639 LAVTAVYVIHRHTPLVNASDWQLGFLIQVSLIIMLLSSMLFIDKPHNWSMAGQVTLALG 698
Db 629 AFVLGVFIKFRNTPIVKATNRELSYLLLSLCCFSSSLFFIGEPODWTCLRQPAFGIS 688
Qy 699 FSLCLSGLLGKTSSFLAYRISKSTQLTSMHPLYRK-----IIVLISVLAIEIGICT 750
Db 689 FVLCISILVKTNRVLLVF--EAKIP-TSPH--RKWGLNLQFLLVFLCTFMQIVICA 741
Qy 751 AYLILEPPMVYKMMESQNTKIILGCNEISIEFLYSMFIDAFLLALCFLTTFVARQLPDN 810
Db 742 IWLNTAPPSSYRNHELEDEIFITCHEGSLMALGFLIGYTCLLAAICFFFPFKSRKLPEN 801
Qy 811 YVEGKCITFGMLVFFIWMSPVYVLTSTKGFMAVEIFAILASSHGLLGCIAPAKCLII 870
Db 802 FNEAKFITFSLIFFIVWISFIPAYASTYGFVSAVEVIAILAA5FGLLACIFFNKVYII 861
Qy 871 LLRPERTSEIVCGRVSTTDNCIQLTSAFV-----SSELNNTTVST 911
Db 862 LFKPSRNTIEEV--RCSTAAHAFKVAARATLRRSNVSRQRSSSLGGSTGST 910

RESULT 4

US-08-480-751-5
; Sequence 5, Application US/08480751
; Patent No. 5858684
; GENERAL INFORMATION:
; APPLICANT: Edward F. Nemeth
; APPLICANT: Edward M. Brown
; APPLICANT: Steven C. Hebert
; APPLICANT: Forrest H. Fuller
; APPLICANT: James E. Garrett, Jr.
; TITLE OF INVENTION: CALCIUM RECEPTOR-ACTIVE
; TITLE OF INVENTION: MOLECULES
; NUMBER OF SEQUENCES: 20
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Lyon & Lyon
; STREET: First Interstate World Center
; STREET: Suite 4700
; STREET: 633 West Fifth Street
; CITY: Los Angeles
; STATE: California
; COUNTRY: USA
; ZIP: 90071
; COMPUTER READABLE FORM:
; MEDIUM TYPE: 3.5" Diskette, 1.44 Mb storage
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: FASTSEQ
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/480,751
; FILING DATE: 7 June, 1995
; CLASSIFICATION: 435
; PRIOR APPLICATION DATA:
; PRIOR APPLICATION DATA: including application
; PRIOR APPLICATION DATA: described below: 9
; APPLICATION NUMBER: 08/353,784
; FILING DATE: 9 December, 1994
; APPLICATION NUMBER: PCT/US/94/12117
; FILING DATE: 21 October, 1994

; APPLICATION NUMBER: U.S. 08/292,827
; FILING DATE: 23 August, 1994
; APPLICATION NUMBER: U.S. 08/141,248
; FILING DATE: 22 October, 1993
; APPLICATION NUMBER: U.S. 08/009,389
; FILING DATE: 23 February, 1993
; APPLICATION NUMBER: U.S. 08/017,127
; FILING DATE: 12 February, 1993
; APPLICATION NUMBER: U.S. 07/934,161
; FILING DATE: 21 August, 1992
; APPLICATION NUMBER: U.S. 07/834,044
; FILING DATE: 11 February, 1992
; APPLICATION NUMBER: U.S. 07/749,451
; FILING DATE: 23 August, 1991
; ATTORNEY/AGENT INFORMATION:
; NAME: Heber, Sheldon O.
; REGISTRATION NUMBER: 38,179
; REFERENCE/DOCKET NUMBER: 213/004
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (213) 489-1600
; TELEFAX: (213) 955-0440
; TELEX: 67-3510
; INFORMATION FOR SEQ ID NO: 5:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 1085 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: protein
; US-08-480-751-5

Query Match 34.6%; Score 1695.5; DB 2; Length 1085;
Best Local Similarity 39.3%; Pred. No. 2.6e-149;
Matches 350; Conservative 173; Mismatches 323; Indels 45; Gaps 15;

Qy 53 LVIGGLFPIDSR TIPANESI-LBPASAKCEGFNFQFRWMKAMIHMKRKRKIDLPNI 111
Db 33 IILGGLFPIHFGVAVKDQDLKSRPESVECI RYNGFRWLQAMIFAIEEINSSPALLPNM 92
Qy 112 TLGYQIFDTCFTISKVSEAVLVPLTGQE---ENRPNFRNSTGAFPA--GIVGAGGSFLSV 166
Db 93 TLGYRIFDTCNTVSKALEATLSFVAQNKIDSINLDEFNCSEHIPSTIAVVGATSGIST 152
Qy 167 PASRILGLYLPQVGYTSTCTVILSDKYQPPSYLRVIAADKIQSKAVVKRIQHPGVWVGA 226
Db 153 AVANLLGLFYIPQVSYASSRLLSNKNQFKSFLRTIPNDEHQATAMADIIEYFRWNVGT 212
Qy 227 IAADDDYGYGVKTFKEMESANLCAVAFSETIPKVYSNEQMKAVKAVKTSTAKVIVLYT 286
Db 213 IAADDDYGRPGIEKFREEAEERDIDFSELISQYSDEEKIQQVVEIQNSTAKVIVVFS 272
Qy 287 SDIDLSLVLEMIHNITDRTWIATEAWITSALIAPKPEYFPYGGTIGFATPRSVIPGLK 346
Db 273 SGPDLEPLIKEIVRRNITGRILWASEAWASSLIAMPEYFHVVGTTIGFLKAGQIPGFR 332
Qy 347 EFLYDVHPNKPNDVLTIEFWQTAFNC-TWPNSSVPYNNVDHRVNMGTGKEDRLYDMSDQ-- 403
Db 333 EFLQKVHPRKSVHNGFAKEFWEETFNCHLOEGAKGPLPVD--TFLRGHEEGGARLSNSPT 390
Qy 404 ----LCTGEKLEDLKNYLDTSQLRITKQCKQAVYAIAGHLDHLSRCQEGQGPFGSNQQ 459
Db 391 AFRPLCTGEENISSVETPYMDYTHLRISYNNVYLAIVSYAHALQDIYTCIPGRGLF-TNGS 449
Qy 460 CAVIPTDFWQLMYMKEIKFKSHEDKWILDNDGLKNGHYDVLNWHL-D-DEGEISFVT 518
Db 450 CADIKKVEAWQVLKHLRLNFTSNMGEQVTFDECGDLA-GNYSIINWHLSPEDGSIVFKE 508
Qy 519 VGRFNFRSTNFELVPIPTNSTIFWNTTESSRLPHSVCTDVCPPGTGRGVQREPICCFDSIP 578
Db 509 VGYNVYAKKGERLFINDEKILWSGFSREVFPNSCRDCLAGTRKGIIEGEPTCCFECVE 568
Qy 579 CADGHVSRKPGERECEQCEDYWSNAQKSECVLKEVEYLAYDEALGFTLVILSVFGAFVV 638
Db 569 CPDGEYSDETDASACDKCPDDFWSNENHTSCIAKEIEFLSWTEPFGLTFAVLGIFLT 628

Db 802 FNEAKFITFSMLIFFIVWISFIPAYASTYGFVSAVEVIAILAA5FGLLACIFFNKVYII 861
QY 871 LLRPERNTSEIVCGRVSTTDCIQLTSAFV-----SSELNNTTVST 911
Db 862 LFKPSRNTIEEV--RCSTAHAHAFKVAARATLRRNSVSRQRSSSLGGSTGST 910

RESULT 6

US-08-353-784-5
; Sequence 5, Application US/08353784
; Patent No. 6011068
; GENERAL INFORMATION:
; APPLICANT: Edward F. Nemeth, Edward M.
; APPLICANT: Brown, Steven C. Hebert,
; APPLICANT: Bradford C. Van Wagenen, Manuel
; APPLICANT: F. Balandrin, Forrest H. Fuller,
; APPLICANT: Eric G. DelMar, and Scott T. Moe
; TITLE OF INVENTION: CALCIUM RECEPTOR-ACTIVE
; TITLE OF INVENTION: MOLECULES
; NUMBER OF SEQUENCES: 20
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Lyon & Lyon
; STREET: First Interstate World Center
; STREET: Suite 4700
; STREET: 633 West Fifth Street
; CITY: Los Angeles
; STATE: California
; COUNTRY: USA
; ZIP: 90071
; COMPUTER READABLE FORM:
; MEDIUM TYPE: 3.5" Diskette, 1.44 Mb storage
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: FASTSEQ
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/353,784
; FILING DATE: 9 December, 1994
; CLASSIFICATION: 514
; PRIOR APPLICATION DATA:
; PRIOR APPLICATION DATA: including application
; PRIOR APPLICATION DATA: described below: 8
; APPLICATION NUMBER: PCT/US/94/12117
; FILING DATE: 21 October, 1994
; APPLICATION NUMBER: U.S. 08/292,827
; FILING DATE: 23 August, 1994
; APPLICATION NUMBER: U.S. 08/141,248
; FILING DATE: 22 October, 1993
; APPLICATION NUMBER: U.S. 08/009,389
; FILING DATE: 23 February, 1993
; APPLICATION NUMBER: U.S. 08/017,127
; FILING DATE: 12 February, 1993
; APPLICATION NUMBER: U.S. 07/934,161
; FILING DATE: 21 August, 1992
; APPLICATION NUMBER: U.S. 07/834,044
; FILING DATE: 11 February, 1992
; APPLICATION NUMBER: U.S. 07/749,451
; FILING DATE: 23 August, 1991
; ATTORNEY/AGENT INFORMATION:
; NAME: Heber, Sheldon O.
; REGISTRATION NUMBER: 38,179
; REFERENCE/DOCKET NUMBER: 209/069
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (213) 489-1600
; TELEFAX: (213) 955-0440
; TELEX: 67-3510
; INFORMATION FOR SEQ ID NO: 5:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 1085 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: protein
US-08-353-784-5

Query Match 34.6%; Score 1695.5; DB 3; Length 1085;
Best Local Similarity 39.3%; Pred.No.2.6e-149;
Matches 350; Conservative 173; Mismatches 323; Indels 45; Gaps 15;
QY 53 LVIGGLEPIDSRTIPANESI-LEPASAKCEGFNFQFRWMKAMIHMIKEINKRKDILPNI 111
Db 33 IILGGLPIHFGVAVKQDLKSRPESVECIIRYNGFRWLQAMIFAIEEINSSPALLPNM 92
QY 112 TLGYQIFDTCFTTISKVAVLVLTGOE---ENRPNFRNSTGAFPA--GIVGAGGSFLSV 166
Db 93 TLGYRIFDTCNTVSKALEATLSFVAQNKIDSLNLDFCNCSEHIPSTIAVVGATGSGIST 152
QY 167 PASRIILGLYLPQVGYTSTCVILSDKYQPPSYLRVIA5DKIQSKAVVVKRIQHFGVWVGA 226
Db 153 AVANLLGLFYIPQVSYASSRLLSNKNQFKSFLRTIPNDEHQATAMADIIEYFRWNWVGT 212
QY 227 IAADDDYKGYVKTfKEKEMESANLCAVAFSETIPKVYSNEKMQKAVKAVKTSTAKVIVLYT 286
Db 213 IAADDDYGRPGIEKFEAEERDICIDFSELISQYSDEEKIQOVVEVIONSTAKVIVVFS 272
QY 287 SDIDL5LFVLEMIHNNITDRTWIATEAWITSALIAKPEYFPYFGGTIGFATPRSVIPGLK 346
Db 273 SGPDLLEPLIKEIVRRNITGRWLASEAWASSSLIAMPEYFHVVGTTIGFGLKAGQIPGFR 332
QY 347 EFLYDVHPNKDPNDVLTIEFQWQAFNC-TWPNSSVPYNVDHRVNMVTKEDRLYDMSDQ-- 403
Db 333 EFLQKVHPKRSVHNGFAKEFEWETFNCHLQEGAKGPLVD--TFLRGHEEGGARLSNSPT 390
QY 404.----LCTGEEKLEDLKNVYLDTSOLRITKQKQAVYAIAGHLDHLSRCQEGQPGFGSNQQ 459
Db 391 AFRPLCTGEENISSVETPYMDYTHLRISYNVYLA5VIAHALQDIYTCIPGRGLF-TNGS 449
QY 460 CAXIPTDFWQLMYMKEIKFKSHEDKWVILDNDGDLKNGHYDVLNWHLD-DEGEISFVT 518
Db 450 CADIKKVEAWQVLKHLRHLNFTSNMGEQVTFDECGDLA-GNYSIINWHLSPEDGSIVFKE 508
QY 519 VGRFNRSTNFELVIPNTNSTIFWNTSESSRLPHSVCTDVCPPGTGRGFVOREPICCFDSIP 578
Db 509 VGYNVYAKKGERLFINDEKILWGSFREVFPFNSCRDCLAGTRKGIIEGEPTCCFECVE 568
QY 579 CADGHVSRKPGERECEQCCEGVSNQAKSECVLKEVEYLAYDEALGFTLVILSVFGAFV 638
Db 569 CPDGEYSDETDASACDKCPDDFWSNENHTSCIAKEIEFLSWTEPFGTALTFLFVGLIFLT 628
QY 639 LAVTAVVVIHRTPLVNASDWQLGFLIQVSLIIMLLSSMLFIDKPHNWSMAGQVTLALG 698
Db 629 AFVLGVFIKFRNTPIVKATNRELSYLLLFSLCCFSSSLFFIGEFDWTCRLRQPAFGIS 688
QY 699 FSLCLSLGLGKTSSFLAVRISKSTQLTSMHPLYRK-----IIVLISVLAIEIGICT 750
Db 689 FVLCISCILVKTNRVLLVF--EAKIP-TSFH---RKWWGLNLQFLLVFLCTFMQIVICA 741
QY 751 AYLILEPPMVYKNMESQNTKIILGCNEISIEFLYSMFGIDAFIALLCFLTTFVARQLPDN 810
Db 742 IWLNTAPPSSYRNHELEDEIFITCHEGSLMALGFLIGYTCLLAAICFFFAFKSRKLPEN 801
QY 811 YYEGKCITFGMLVFFIWMSPVVPVYLSTKGFKMAVEIPAILASSHGLLGCIFAPKCLII 870
Db 802 FNEAKFITFSMLIFFIVWISFIPAYASTYGFVSAVEVIAILAA5FGLLACIFFNKVYII 861
QY 871 LLRPERNTSEIVCGRVSTTDCIQLTSAFV-----SSELNNTTVST 911
Db 862 LFKPSRNTIEEV--RCSTAHAHAFKVAARATLRRNSVSRQRSSSLGGSTGST 910

RESULT 7

US-08-484-719B-5
; Sequence 5, Application US/08484719B
; Patent No. 6031003
; GENERAL INFORMATION:
; APPLICANT: Edward F. Nemeth, Edward M.
; APPLICANT: Brown, Steven C. Hebert,
; APPLICANT: Bradford C. Van Wagenen,

		COMPUTER READABLE FORM:	
		MEDIUM TYPE: 3.5" Diskette, 1.44 Mb storage	
		COMPUTER: IBM PC compatible	
		OPERATING SYSTEM: PC-DOS/MS-DOS	
		SOFTWARE: FASTSEQ	
		CURRENT APPLICATION DATA:	
		APPLICATION NUMBER: US/08/484,159	
		FILING DATE: 7 June, 1995	
		CLASSIFICATION: 435	
		PRIOR APPLICATION DATA:	
		including application	
		PRIOR APPLICATION DATA: described below: 9	
		APPLICATION NUMBER: 08/353,784	
		FILING DATE: 9 December, 1994	
		APPLICATION NUMBER: PCT/US/94/12117	
		FILING DATE: 21 October, 1994	
		APPLICATION NUMBER: U.S. 08/292,827	
		FILING DATE: 23 August, 1994	
		APPLICATION NUMBER: U.S. 08/141,248	
		FILING DATE: 22 October, 1993	
		APPLICATION NUMBER: U.S. 08/009,389	
		FILING DATE: 23 February, 1993	
		APPLICATION NUMBER: U.S. 08/017,127	
		FILING DATE: 12 February, 1993	
		APPLICATION NUMBER: U.S. 07/934,161	
		FILING DATE: 21 August, 1992	
		APPLICATION NUMBER: U.S. 07/834,044	
		FILING DATE: 11 February, 1992	
		APPLICATION NUMBER: U.S. 07/749,451	
		FILING DATE: 23 August, 1991	
		ATTORNEY/AGENT INFORMATION:	
		NAME: Heber, Sheldon O.	
		REGISTRATION NUMBER: 38,179	
		REFERENCE/DOCKET NUMBER: 214/101	
		TELECOMMUNICATION INFORMATION:	
		TELEPHONE: (213) 489-1600	
		TELEFAX: (213) 955-0440	
		TELEX: 67-3510	
		INFORMATION FOR SEQ ID NO: 5:	
		SEQUENCE CHARACTERISTICS:	
		LENGTH: 1085 amino acids	
		TYPE: amino acid	
		TOPOLOGY: linear	
		MOLECULE TYPE: protein	
		US-08-484-159-5	
		Query Match 34.6%; Score 1695.5; DB 3; Length 1085;	
		Best Local Similarity 39.3%; Pred. No. 2.6e-149;	
		Matches 350; Conservative 173; Mismatches 323; Indels 45; Gaps 15;	
QY	53	LVIGGLFPIDSRIPANESI-LEPASAKCEGFNFQFRWKMAMTHMIKEINKRKDILPNI	111
Db	33	IILGGLFPIHFGVAVKQDLKSRPESVEICIRYNGRFRWLQAMIFAEEINSSPALLPNN	92
QY	112	TLGYQIFDTCFTISKSVAVLVLTQGE---ENRPNFRNSIGAPPA--GIVGAGGSFLSV	166
Db	93	TLGYRIFDTCNTVSKALEATLSFVAQNKIDSLNDEFNCSEHIPSTIAVVGATGSGIST	152
QY	167	PASRILGLYLPQVGYTSTCVILSDKYQPPSYLRVIAADKIQSKAVVKRIQHFGWVWGA	226
Db	153	AVANLLGLFYIPQVSYASSRLLSNKNQFKSFLRTIPNDEHQATAMADIIEYFRWNWVGT	212
QY	227	IAADDDYGYKVTKFKEMESANLCVAFSETIPKYSNEKMKAVKAVKTSTAKVILYT	286
Db	213	IAADDDYGRPGIEKFEAEERDIDFSELISQYSDEEKIQVVEVIONSTAKVIVFVS	272
QY	287	SDIDLFLVLEMIHNIIDRTWIATEAWITSALIAKPEYFPFGGTIGFATPRSVIPGLK	346
Db	273	SGPDLEPLIKEIVRNITGRIWLASEAWASSSLIAMPEYFHVVGTTIGFGLKAGQIPGR	332
QY	347	EFLYDVHPNKDPNDVLTIEFWQAFNC-TWPNSSVPYVNDHRVNMGTGKEDRLYDMSDQ--	403
Db	333	EFLQKVHPRKSVHNGFAKEFWEEETFNCHLQEGAKGPLVD--TFLRGHEEGGARLSNPT	390
		RESULT 9	
		US-08-485-588-8	
		Sequence 8, Application US/08485588	
		Patent No. 5688938	
		GENERAL INFORMATION:	
		APPLICANT: Edward M. Brown	
		APPLICANT: Steven C. Hebert	
		APPLICANT: Forrest H. Fuller	
		APPLICANT: James E. Garrett, Jr.	
		TITLE OF INVENTION: CALCIUM RECEPTOR-ACTIVE	
		TITLE OF INVENTION: MOLECULES	
		NUMBER OF SEQUENCES: 20	
		CORRESPONDENCE ADDRESS:	
		ADDRESSER: Lyon & Lyon	
		STREET: First Interstate World Center	
		STREET: Suite 4700	
		STREET: 633 West Fifth Street	
		CITY: Los Angeles	
		STATE: California	
		COUNTRY: USA	
		ZIP: 90071	
		COMPUTER READABLE FORM:	
		MEDIUM TYPE: 3.5" Diskette, 1.44 Mb storage	
		COMPUTER: IBM PC compatible	
		OPERATING SYSTEM: PC-DOS/MS-DOS	
		SOFTWARE: FASTSEQ	
		CURRENT APPLICATION DATA:	
		APPLICATION NUMBER: US/08/485,588	
		FILING DATE: 7 June, 1995	
		CLASSIFICATION: 435	
		PRIOR APPLICATION DATA:	
		including application	
		PRIOR APPLICATION DATA: described below: 9	
		APPLICATION NUMBER: 08/353,784	
		FILING DATE: 9 December, 1994	

; FILING DATE: 21 August, 1992
; APPLICATION NUMBER: U.S. 07/834,044
; FILING DATE: 11 February, 1992
; APPLICATION NUMBER: U.S. 07/749,451
; FILING DATE: 23 August, 1991
; ATTORNEY/AGENT INFORMATION:
; NAME: Heber, Sheldon O.
; REGISTRATION NUMBER: 38,179
; REFERENCE/DOCKET NUMBER: 213/006
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (213) 489-1600
; TELEFAX: (213) 955-0440
; TELEX: 67-3510
; INFORMATION FOR SEQ ID NO: 8:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 1079 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: protein
US-08-484-565-8

Query Match 34.5%; Score 1690.5; DB 1; Length 1079;
Best Local Similarity 38.0%; Pred. No. 7.5e-149;
Matches 352; Conservative 181; Mismatches 332; Indels 61; Gaps 17;

QY 18 LAFLW--AELGSEAKEKEEBERTCRLLGKCVDAENHSLVIGLFPIDSRITIPANESI-LE 74
Db 11 LALAWHSSAYGPDQRAQKKGD-----IILGGLFPIHFGVAAKQDQLKSR 54

QY 75 PASAKCEGFNFQFRWKMAMIHMIKEINKRKDILPNITLGYQIFDTCFTTISKSVAVLVF 134
Db 55 PESVECIRYNFRGRFWLQAMIFAIEEINSSPSSLPNMTLGYRIFDTCNTVSKALEATLSF 114

QY 135 LTQGE---ENRPNFNSTGAPPA--GIVGAGGSFLSVPASRILGLYLPQVGYTSTCVIL 189
Db 115 VAQNKIDSLNLDFCNCSEHIPSTIAVVGATGSGVSTAVANLLGLFYIPQVSYASSRLL 174

QY 190 SDKYQPPSYLRVIAADKIQSKAVVKRIQHFQWVWVGAIADDDYGYKVKTFFKEMESAN 249
Db 175 SNKNQYKSFRTIPNDEHQATAMADIIEYFRWNWVGITIAADDDYGRPGIEKFEAEERD 234

QY 250 LCVAFSETIPKVYSNEKMQKAVKAVKTSIAKIVLYTSDIDLSLFLVLEMIHNITDRTWI 309
Db 235 ICIDFSELISQYSEEEIQVVEVIONSTAKVIVVFSSGPDLEBLIKEIVRRNITGRWL 294

QY 310 ATEAWITSALIAKPEYFPYFGGTIGFATPRSVIPGLKEFLYDVHPNKPNDVLTIEFWOT 369
Db 295 ASEAWASSSLIAMPEYFHVVGTTIGFGLKAGQIPGFREFLQKVHPRKSVHNGFAKEFWEE 354

QY 370 AFNCTWPNSS---VPYNVDHRVNMGTGKEDRLYDMSD---QLCTGEEKLEDLKNYLTSTQ 423
Db 355 TFNCHLQEGAKGPLEVDVTFVRSHEEG-GNRLNLSSTAFRPLCTGDENINSVETPYMDYEH 413

QY 424 LRITKQCKQAVYALAHGLDHLSRCQEGQPGFGSNQQCAYIPTDFWQLMYMKEIKFKSH 483
Db 414 LRISYNVYLAVYSTAHALQDIYTCLPGRGLF-TNGSCADIKKVEAWQVLKHLRHLNFTWN 472

QY 484 EDKWVILDNDGDKNGHYDVLNWHLD-DEGEISFVTVGRFNRFRSTNFELVPTNSTIFWN 542
Db 473 MGEQVTFDECGDLV-GNYSIINWHLSPEDGSIVFEKGVYNNVYAKKGERLFINEEKILWS 531

QY 543 TESSRLPHSVCTDVCPPGTGRGVQREPICCFDSIPCADGHVSRKPGERECEQCCEGYWS 602
Db 532 GFSREVFPNSCRDCQAGTRKGIIEGEPTCCFCEVCEPCDGEYSGETDASACDKCPDFFWS 591

QY 603 NAKSECVLKEVEYLAYDEALGFTLVLSVFGAFVAVTAVVYIHRHTPLVNASDWQLG 662
Db 592 NENHTSCIAKEIEFLAWTEPFGLIATLFAVLGIFLTAFLVGVFIKFRNTPIVKATNRELS 651

QY 663 FLIQVSLIIMLLSSMLFIDKPHNWSMAGQVTLALGFSCLSLGKTSLSFLAYRISKS 722
Db 652 YLLFSLCCFSSSIFFIGEPQDWTCLRLQPAFGISFVLCISCLVKTNRVLLVF---EA 708

QY 723 KTQLTSMHPLYRK-----IIVLISVLAEGICTAYLILEPDMVYKNMESQNTKIILG 774
Db 709 KIP-TSFH--RKWGLNLQFLVFLCTFMQILICIWLVTAPPSSYRNHELEDEIIFIT 764

QY 775 CNEISIEFLYSFMFGIDAFLLCLTTFVARQLPDNYYEGKCTFGMLVFFIIMWSFVPV 834
Db 765 CHEGSLMALGSLIGYTCLLAAICFFFAFKSRKLPENFNEAKFTFSMLIFFIVWISFIPA 824

QY 835 YLSTKGKFKMAVEIFAIIASSHGLLGCIAPKCLIIILRRPERNTSEIVCGRVSTTDNCIQ 894
Db 825 YASTYKGFVSAVEVIAIIAASFGLLACIFFNKVYIILFKPSRNTIEEV--RSSTAHAHFK 882

QY 895 LTSAFV-----SSELNNTTVS 910
Db 883 VAARATLRRPNISRKRRSSSLGGSTGS 908

RESULT 11

US-08-480-751-8
; Sequence 8, Application US/08480751
; Patent No. 5858684
; GENERAL INFORMATION:
; APPLICANT: Edward F. Nemeth
; APPLICANT: Edward M. Brown
; APPLICANT: Steven C. Hebert
; APPLICANT: Forrest H. Fuller
; APPLICANT: James E. Garrett, Jr.
; TITLE OF INVENTION: CALCIUM RECEPTOR-ACTIVE
; TITLE OF INVENTION: MOLECULES
; NUMBER OF SEQUENCES: 20
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Lyon & Lyon
; STREET: First Interstate World Center
; STREET: Suite 4700
; STREET: 633 West Fifth Street
; CITY: Los Angeles
; STATE: California
; COUNTRY: USA
; ZIP: 90071
; COMPUTER READABLE FORM:
; MEDIUM TYPE: 3.5" Diskette, 1.44 Mb storage
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: FASTSEQ
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/480,751
; FILING DATE: 7 June, 1995
; CLASSIFICATION: 435
; PRIOR APPLICATION DATA:
; PRIOR APPLICATION DATA: including application
; PRIOR APPLICATION DATA: described below: 9
; APPLICATION NUMBER: 08/353,784
; FILING DATE: 9 December, 1994
; APPLICATION NUMBER: PCT/US/94/12117
; FILING DATE: 21 October, 1994
; APPLICATION NUMBER: U.S. 08/292,827
; FILING DATE: 23 August, 1994
; APPLICATION NUMBER: U.S. 08/141,248
; FILING DATE: 22 October, 1993
; APPLICATION NUMBER: U.S. 08/009,389
; FILING DATE: 23 February, 1993
; APPLICATION NUMBER: U.S. 08/017,127
; FILING DATE: 12 February, 1993
; APPLICATION NUMBER: U.S. 07/934,161
; FILING DATE: 21 August, 1992
; APPLICATION NUMBER: U.S. 07/834,044
; FILING DATE: 11 February, 1992
; APPLICATION NUMBER: U.S. 07/749,451
; FILING DATE: 23 August, 1991
; ATTORNEY/AGENT INFORMATION:
; NAME: Heber, Sheldon O.
; REGISTRATION NUMBER: 38,179
; REFERENCE/DOCKET NUMBER: 213/004

TELECOMMUNICATION INFORMATION:
TELEPHONE: (213) 489-1600
TELEFAX: (213) 955-0440
TELEX: 67-3510
INFORMATION FOR SEQ ID NO: 8:
SEQUENCE CHARACTERISTICS:
LENGTH: 1079 amino acids
TYPE: amino acid
TOPOLOGY: linear
MOLECULE TYPE: protein
US-08-480-751-8

Query Match 34.5%; Score 1690.5; DB 2; Length 1079;
Best Local Similarity 38.0%; Pred. No. 7.5e-149;
Matches 352; Conservative 181; Mismatches 332; Indels 61; Gaps 17;

QY 18 LAFLW--AELGSEAKEEKEERTCRLLGKVCDAENHSLVIGGLFPIDSRTPANESI-LE 74
DB 11 LALAWHSSAYGPDQRAQKGD-----IILGGLFPIHFVAAKDQDLKSR 54

QY 75 PASAKCEGFNFRFMKAMIIHMIKEINKRKDILPNITLGYQIFDTCFTTISKSVEAVLVP 134
DB 55 PESVECIYRNGFRWLQAMIFAIEEINSSPSLLPNMTLGYRIFDTCNTVSKALEATLSF 114

QY 135 LTGOE---ENRPNFRNSTGAPPA--GIVGAGGSFSLVPASRILGLYLPOVGYTSTCVIL 189
DB 115 VAQNKIDSLNLDSEFCNCEHIPSTIAVVGATSGVSTAVANLLGLFYIPQVSYASSRLL 174

QY 190 SDKYQFPSYLFVIAADKIQSKAVVVKRIQHFGVWVVGAIADDDYGYKVKTFKKESAN 249
DB 175 SNKNQYKSLRTIPNDEHQATAMADIIIEYFRWNVGTIAADDDYGRPGIEKFREEAEERD 234

QY 250 LCVARSETIPKVSNEKMQKAVKVTSTAKVIVLYTSDIDLFLVLEMIHNITDRTWI 309
DB 235 ICIDFSELISQSDDEEIQVVEVIQNSTAKVIVVFSSGPDLEPLIKEIVRNRITGRWL 294

QY 310 ATEAWITSALIAKPEYPPYFGGTIGFATPRSVIPGLKEFLYDVHKNPDNDVLTIEFWOT 369
DB 295 ASEAWASSSLIAMPYFHVVGTTIGFGLKAGQIPGFREFLQKVHPRKSVHNGFAKEFWEE 354

QY 370 AFNCTWPNSS---VPYVNDHRVNMVTGKEDRLYDMSD---QLCTGEEKLEDLKNYLTDSQ 423
DB 355 TFNCHLQEGAKGPLPVDTFVRSHEEG-GNRLLNSSAFRPLCTGDNINSVETPYMDYEH 413

QY 424 LRITKQCKQAVYAIAHGLDHLRSCQEGQGFSGNQCCAYIPTDFWQLMYMKIEIKFKSH 483
DB 414 LRISYVYLAVYSIAHALQDIYTCLPGRGLF-TNGSCADIKKVEAQAQVHLKHLNFTNN 472

QY 484 EDKWILDNDGDKNGHYDVLNWHLD-DEGEISFVTVGRFNFRSTNPFELVPTNSTIFWN 542
DB 473 MGEQVTFDECGDLV-GNYSIINWHLSPEDGSIVFKEVGYNVYAKKGERLFINEEKILWS 531

QY 543 TESSRLPHSVCTDVPPTGTRGFRVQREPICCFDSIPCADGHVSRKPGERECEQCAGEDYWS 602
DB 532 GFSREVFPNSRDCQAGTRKGIIEGEPICCEFCVECPDGEYSGETDASACDKCPDDFWS 591

QY 603 NAKSECVLKEVEYLAYDEALGFTLVLSVFGAPVVLAVTAVYVHRHTPLVNASDWQLG 662
DB 592 NENHTSCIAKEIEFLAWTEPFGIALTLEAVLGIFLTAFVLGVFKFRNTPIVKATNRELS 651

QY 663 FLIQVSLIIMLLSSMLFIDKPHNWSMAGQVTLALGFSCLSLGKTSFLAYRISKS 722
DB 652 YLLLFSLCCFSSSLFFIGEPQDWTCLRQPAFGISFVLCISCLVKTNRVLLVF--EA 708

QY 723 KTQLTSMHPLYRK-----IIVLISVLAEIGICTAYLILEPPMVYKNMESQNTKIILG 774
DB 709 KIP-TSFH---RKWGLNLQFLLVFLCTFMQILICIWLTYAPPSSVYNHELEDEIIFIT 764

QY 775 CNEISIEFLYSNFGIDAFALLCFLTTFVARQLPDNYEKGKCIFFGMLVFPFIWMSFVPV 834
DB 765 CHEGSLMALGSLIGYTCLLAAICFFFAFKSRKLPENFNEAKFITFSMLIFFIVWISFIPA 824

QY 835 YLSTKGKFKMAVEIPAILASSHGLLGCIAPKCLIIILLRPERNTSEIVCGRVSTTDNCIQ 894

DB 825 YASTYGKFVSAVEVIAILAAASFGLLACIFFNKNVYIILFKPSRNTIEEV--RSSTAHAHFK 882
QY 895 LTSAPV-----SSELNNTTVS 910
DB 883 VAARATLRRPNISRKRSSSSLGSGTGS 908

RESULT 12
US-08-943-986-8
Sequence 8, Application US/08943986
Patent No. 5962314
GENERAL INFORMATION:
APPLICANT: Edward M. Brown
APPLICANT: Steven C. Hebert
APPLICANT: James B. Garrett, Jr.
TITLE OF INVENTION: CALCIUM RECEPTOR-ACTIVE
TITLE OF INVENTION: MOLECULES
NUMBER OF SEQUENCES: 20
CORRESPONDENCE ADDRESS:
ADDRESSEE: Lyon & Lyon
STREET: First Interstate World Center
STREET: Suite 4700
STREET: 633 West Fifth Street
CITY: Los Angeles
STATE: California
COUNTRY: USA
ZIP: 90071

COMPUTER READABLE FORM:
MEDIUM TYPE: 3.5" Diskette, 1.44 Mb storage
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: FASTSEQ
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/943,986
FILING DATE: 03-OCT-1997
CLASSIFICATION: 530
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 08/484,565
FILING DATE: 7-June-1995
APPLICATION NUMBER: 08/353,784
FILING DATE: 9 December, 1994
APPLICATION NUMBER: PCT/US/94/12117
FILING DATE: 21 October, 1994
APPLICATION NUMBER: U.S. 08/292,827
FILING DATE: 23 August, 1994
APPLICATION NUMBER: U.S. 08/141,248
FILING DATE: 22 October, 1993
APPLICATION NUMBER: U.S. 08/009,389
FILING DATE: 23 February, 1993
APPLICATION NUMBER: U.S. 08/017,127
FILING DATE: 12 February, 1993
APPLICATION NUMBER: U.S. 07/934,161
FILING DATE: 21 August, 1992
APPLICATION NUMBER: U.S. 07/834,044
FILING DATE: 11 February, 1992
APPLICATION NUMBER: U.S. 07/749,451
FILING DATE: 23 August, 1991
ATTORNEY/AGENT INFORMATION:
NAME: Heber, Sheldon O.
REGISTRATION NUMBER: 38,179
REFERENCE/DOCKET NUMBER: 213/006
TELECOMMUNICATION INFORMATION:
TELEPHONE: (213) 489-1600
TELEFAX: (213) 955-0440
TELEX: 67-3510
INFORMATION FOR SEQ ID NO: 8:
SEQUENCE CHARACTERISTICS:
LENGTH: 1079 amino acids
TYPE: amino acid
TOPOLOGY: linear
MOLECULE TYPE: protein
US-08-943-986-8

Db 55 PESVECIRYNFRGRWLQAMIFAIEEINSSPSLLPNMTLGYRIFDTCNTVSKALEATLSF 114

QY 135 LTQGE---ENRPNFRNSTGAPPA--GIVGAGGSFSLVSPASRIILGLYLPOVGYTSTCVIL 189

Db 115 VAQNKIDSLNLDDEFNCSEHIPSTIAVVGATSGVSTAVANLLGLFYIPQVSYASSRLL 174

QY 190 SDKYQPPSYLRVIAADKIQSKAVVKRIQHFGWVWVGAIADDDYGYKYGVKTFKEMESAN 249

Db 175 SNKNQYKSFRLRTIPNDEHQATAMADIIEYFRWNWVGTTIAADDDYGRPGIEKFRFEAEERD 234

QY 250 LCVAFSETIPKVYSNEKMQKAVKVTSTAKVIVLYTSDIDLSLFVLEMIHNTDRTWI 309

Db 235 ICIDFSELISQYSDDEEIQQWVEIQNSTAKVIVVFSSGPDLEPLIKEIVRNRNITGRWL 294

QY 310 ATEAWITSALIAKPEYFPYFGGTIGFATPRSVIPGLKEFLYDVHPNKDPNDVLTIEFWQT 369

Db 295 ASEAWASSLIAMPEYFHVVGTTIGFGLKAGQIPGFREFLQKVHPRKSVHNGFAKEFWEE 354

QY 370 AFNCTWPNSS---VPYNVDRVNMVTGKEDRLYDMSD---QLCTGEEKLEDLKNYLYDTSQ 423

Db 355 TPNCHLOEGAKGPLPVDTFVRSHEEG-GNRLNLSSTAFRPLCTGDENINSVETPYMDYEH 413

QY 424 LRITKQCKQAVYAJAHGLDHLRSRCQEQGQPGSGNQCCAYIPTDFWQLWYMYMKEIKFKSH 483

Db 414 LRISYNVYLAVYSIAHALQDIYTCLPGRGLF-TNGSCADIKKVEAWQVLKHLRHLNFTNN 472

QY 484 EDKWVILDNDGDLKNGHYDVLNWHLD-DEGETSFVTVGRFNRSTNFEIVPTNSTIFWN 542

Db 473 MGEQVTFDECGDLV-GNYSIINWHLSPEDGSIVFEKVGYYNVYAKKGERLFINEEKILWS 531

QY 543 TESSRLPHSVCTDVCPPGTGRGVQREPICCFDSIPCADGHVSRKPGERECEQCAGEDYWS 602

Db 532 GFSREVFPSCSDCQAGTRKGIIEGEPTCCFECVCECPDGEYSGETDASACDKCPDDFS 591

QY 603 NAKSECVLKEVEILAYDEALGFTLVILSVFCAFVVLAVTAVYVHRHTPLVNASDWQLG 662

Db 592 NENHTSCIAKEIEFLAWTEPPFGIALTLFAVLGIFLTAFLVGVFIKFRNTPIVKATNRELS 651

QY 663 FLIQVSLIIMLSSMLFIDKPHNWSMAGQVTLALGFSLCLSGLLGKTSSLFLAYRISKS 722

Db 652 YLLLFSLCCFSSSLFFIGEPQDWTCLRQPAFGISFVLCISCLVKTNRVLLVF---EA 708

QY 723 KTQLTSMHPLVRK-----IIVLISVLAETIGICTAYLILEPPMVYKNMESQNTKIILG 774

Db 709 KIP-TSFH---RKWWGLNLQFLLVFLCTFMQILICIWLTYAPPSSVRNHELEDEIIFIT 764

QY 775 CNEISIEFLYSMFGIDAFALLCFLTTFVARQLPDNYEGKCITFGMLVFFIIMWSFVPV 834

Db 765 CHEGSLMALGSLIGYTCLLAAICFFFAFKSRKLPENFNEAKFITFSMLIFFIVWISFIPA 824

QY 835 YLSTKGKFKMAVEIFAILASSHGLLGICIFAPKCLIIILLRPERNTSEIVCGRVSTTDNCIQ 894

Db 825 YASTYKGFVSAVEVIAILAAAFGLLACIFFNKVYIILFKPSRNTIEEV--RSSTAHAHAFK 882

QY 895 LTSAFV-----SSELNNTTVS 910

Db 883 VAARATLRRPNISRKRSSSLGGSTGS 908

RESULT 14

US-08-484-719B-8

; Sequence 8, Application US/08484719B

; Patent No. 6031003

; GENERAL INFORMATION:

; APPLICANT: Edward F. Nemeth, Edward M.

; APPLICANT: Brown, Steven C. Hebert,

; APPLICANT: Bradford C. Van Wagenen,

; APPLICANT: Manuel F. Balandrin,

; APPLICANT: Forrest H. Fuller, Eric G.

; APPLICANT: Delmar, Scott T. Moe

; TITLE OF INVENTION: CALCIUM RECEPTOR-ACTIVE

; MOLECULES

; NUMBER OF SEQUENCES: 20

; CORRESPONDENCE ADDRESS:

; ADDRESSEE: Lyon & Lyon

; STREET: First Interstate World Center

; STREET: Suite 4700

; STREET: 633 West Fifth Street

; CITY: Los Angeles

; STATE: California

; COUNTRY: USA

; ZIP: 90071

; COMPUTER READABLE FORM:

; MEDIUM TYPE: 3.5" Diskette, 1.44 Mb storage

; COMPUTER: IBM PC compatible

; OPERATING SYSTEM: MS Word

; SOFTWARE: FastSeq for Windows Version 3.0

; CURRENT APPLICATION DATA:

; APPLICATION NUMBER: US/08/484,719B

; FILING DATE: 7 June, 1995

; CLASSIFICATION: 514

; PRIOR APPLICATION DATA:

; APPLICATION NUMBER: 08/353,784

; FILING DATE: 9 December, 1994

; APPLICATION NUMBER: PCT/US/94/12117

; FILING DATE: 21 October, 1994

; APPLICATION NUMBER: U.S. 08/292,827

; FILING DATE: 23 August, 1994

; APPLICATION NUMBER: U.S. 08/141,248

; FILING DATE: 22 October, 1993

; APPLICATION NUMBER: U.S. 08/009,389

; FILING DATE: 23 February, 1993

; APPLICATION NUMBER: U.S. 08/017,127

; FILING DATE: 12 February, 1993

; APPLICATION NUMBER: U.S. 07/934,161

; FILING DATE: 21 August, 1992

; APPLICATION NUMBER: U.S. 07/834,044

; FILING DATE: 11 February, 1992

; APPLICATION NUMBER: U.S. 07/749,451

; FILING DATE: 23 August, 1991

; ATTORNEY/AGENT INFORMATION:

; NAME: Douglas C. Murdock

; REGISTRATION NUMBER: 37,549

; REFERENCE/DOCKET NUMBER: 213/007

; TELECOMMUNICATION INFORMATION:

; TELEPHONE: (213) 489-1600

; TELEFAX: (213) 955-0440

; TELEX: 67-3510

; INFORMATION FOR SEQ ID NO: 8:

; SEQUENCE CHARACTERISTICS:

; LENGTH: 1079 amino acids

; TYPE: amino acid

; STRANDEDNESS: single

; TOPOLOGY: linear

; MOLECULE TYPE: protein

US-08-484-719B-8

Query Match 34.5%; Score 1690.5; DB 3; Length 1079;

Best Local Similarity 38.0%; Pred. No. 7.5e-149;

Matches 352; Conservative 181; Mismatches 332; Indels 61; Gaps 17;

QY 18 LAFLW--AELGSEAKEEKEERTCRLLGKCVDNAENHSLVIGLFPIDSRITIPANESI-LE 74

Db 11 LALAWHSSAYGPDQRAQKGD-----IILGLFPIHFGVAAKDQLKSR 54

QY 75 PASAKCEGFNFQFRFMKAMIHMIKEINKRKDILPNITLGYQIFDTCPTISKSVEAVLVF 134

Db 55 PESVECIRYNFRGRWLQAMIFAIEEINSSPSLLPNMTLGRIFDTCNTVSKALEATLSF 114

QY 135 LTQGE---ENRPNFRNSTGAPPA--GIVGAGGSFSLVSPASRIILGLYLPOVGYTSTCVIL 189

Db 115 VAQNKIDSLNLDDEFNCSEHIPSTIAVVGATSGVSTAVANLLGLFYIPQVSYASSRLL 174

QY 190 SDKYQPPSYLRVIAADKIQSKAVVKRIQHFGWVWVGAIADDDYGYKYGVKTFKEMESAN 249

Db 175 SNKNQYKSFRLRTIPNDEHQATAMADIIEYFRWNWVGTTIAADDDYGRPGIEKFRFEAEERD 234

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